



Water-Data Report 2008

08017300 South Fork Sabine River near Quinlan, TX

Sabine Basin
Upper Sabine Subbasin

LOCATION.--Lat 32°53'52", long 96°15'11" referenced to North American Datum of 1927, Hunt County, TX, Hydrologic Unit 12010001, on right bank at downstream side of bridge on Farm Road 1565, 2.4 mi upstream from Dry Creek, 6.2 mi upstream from Bearpen Creek, 7.0 mi southwest of Quinlan, and 25.0 mi upstream from mouth.

DRAINAGE AREA.--78.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Feb. 1959 to current year.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 461.40 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Wastewater effluent is discharged at various periods during the water year by Royse City located approximately 10.0 mi above this station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1890, 21 ft July 29, 1902, from information by local resident. Flood of Apr. 27, 1957, reached a stage of 17.76 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 7	0345	5,750	16.76
Mar 19	0030	*17,700	*18.32
May 15	1015	3,320	16.39

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.2	5.0	5.8	3.3	1.9	6.7	9.7	7.2	1.6	1.5	1.2	1.0
2	e1.3	5.1	6.7	2.7	1.9	6.0	10	6.9	1.5	1.1	1.2	1.1
3	1.7	5.7	6.8	2.4	2.0	368	9.6	6.4	1.4	0.96	1.2	1.2
4	1.9	5.7	6.9	2.6	2.2	348	9.4	6.8	1.3	0.91	1.2	1.2
5	1.9	6.3	7.0	2.4	3.1	72	21	58	1.4	0.97	1.3	1.2
6	1.8	6.4	6.6	2.1	30	347	12	522	1.4	0.88	1.3	1.3
7	2.4	5.5	7.0	2.2	6.3	2,980	10	117	1.3	0.95	1.4	1.3
8	2.0	5.8	7.0	2.2	3.1	225	8.9	30	1.3	0.93	1.5	1.3
9	1.9	7.7	8.4	2.1	2.1	46	574	17	1.4	0.93	1.2	1.5
10	2.3	8.6	7.7	2.2	2.0	621	1,140	13	434	0.92	1.2	1.5
11	2.0	9.4	6.9	2.0	1.9	308	447	11	174	0.90	1.3	1.4
12	1.9	10	31	1.9	180	54	46	9.5	13	0.86	1.3	1.3
13	2.0	10	23	1.8	96	26	21	9.7	3.4	0.91	1.3	1.7
14	2.6	10	12	1.8	18	18	15	233	2.3	0.98	1.1	46
15	53	9.0	535	1.8	6.3	14	13	1,840	5.4	0.94	1.6	6.7
16	77	8.8	208	1.7	174	11	10	178	3.5	0.99	1.6	2.2
17	14	9.7	24	1.6	739	11	9.4	20	57	1.0	1.6	1.3
18	5.0	9.8	11	1.6	101	2,480	149	7.4	147	0.93	1.4	1.0
19	2.6	9.8	5.3	1.8	32	9,400	36	3.6	15	0.93	1.5	0.96
20	1.8	9.5	3.9	1.7	19	596	15	2.5	4.4	0.90	3.1	1.2
21	1.6	9.5	3.6	1.7	14	70	11	2.0	2.6	0.96	29	0.87
22	1.5	10	3.0	1.8	15	29	9.3	1.8	1.8	0.95	3.7	0.91
23	9.3	11	2.5	1.9	13	19	8.3	1.8	1.6	0.93	1.9	1.1
24	3.3	11	2.3	1.8	11	15	53	1.8	1.4	0.98	1.5	1.2
25	2.0	24	2.3	2.0	9.3	13	33	1.6	1.2	e1.1	1.6	0.86
26	1.5	14	16	2.5	8.0	12	14	1.5	1.2	1.1	1.3	0.83
27	1.5	7.5	52	3.0	7.5	11	9.8	11	1.1	1.1	1.1	0.81
28	1.7	5.9	38	2.5	9.3	10	8.2	58	1.2	1.1	1.1	0.85
29	3.3	5.4	29	2.2	6.8	9.2	7.4	6.5	1.6	1.2	1.0	0.93
30	5.2	5.3	9.5	2.0	---	9.7	7.1	2.5	3.3	1.1	0.94	0.93
31	5.3	---	4.7	1.9	---	9.8	---	1.9	---	1.1	0.92	---
Total	216.5	261.4	1,092.9	65.2	1,515.7	18,145.4	2,727.1	3,189.4	888.6	31.01	72.56	85.65
Mean	6.98	8.71	35.3	2.10	52.3	585	90.9	103	29.6	1.00	2.34	2.85
Max	77	24	535	3.3	739	9,400	1,140	1,840	434	1.5	29	46
Min	1.2	5.0	2.3	1.6	1.9	6.0	7.1	1.5	1.1	0.86	0.92	0.81
Ac-ft	429	518	2,170	129	3,010	35,990	5,410	6,330	1,760	62	144	170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	92.9	65.2	112	62.2	114	121	110	138	90.6	26.2	5.30	22.1
Max	656	655	562	277	556	585	693	674	1,128	490	96.8	353
(WY)	(1982)	(1995)	(2002)	(1974)	(1983)	(2008)	(1966)	(1979)	(1981)	(1981)	(1974)	(1974)
Min	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.04	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1976)	(1976)	(1972)	(1971)	(1988)	(2006)	(1964)	(1965)	(1963)

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	Calendar Year 2007	Water Year 2008	Water Years 1959 - 2008	
Annual total	27,622.63	28,291.42		
Annual mean	75.7	77.3	79.8	
Highest annual mean			187	1995
Lowest annual mean			3.29	1996
Highest daily mean	3,120	Jun 27	9,400	Mar 19
Lowest daily mean	0.35	Mar 26	0.81	Sep 27
Annual seven-day minimum	0.46	Feb 19	0.91	Jul 6
Maximum peak flow			17,700	Mar 19
Maximum peak stage			18.32	Mar 19
Annual runoff (ac-ft)	54,790		56,120	
10 percent exceeds	176		53	
50 percent exceeds	3.7		3.3	
90 percent exceeds	0.60		1.1	

